

## **AMENDMENT TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

Claims 1 and 2. (canceled).

3. (currently amended) ~~Cationic heteroarylazine dyes as defined in claim 1, characterized in that they are~~ A cationic heteroarylazine dye selected from among the group consisting of: 1-(2-hydroxyethyl)-3-((Z)-[(2E)-2-(3-methyl-1,3-benzothiazol-2(3H)-ylidene)hydrazono]methyl)pyridinium bromide, 4-((E)-[(2Z))-2-(3,4-dimethyl-1,3-thiazol-2(3H)-ylidene)hydrazono]methyl)-1-(2-hydroxyethyl)pyridinium bromide, 2-((E)-[(2Z)-2-(3,4-dimethyl-1,3-thiazol-2(3H)-ylidene)hydrazono]methyl)-3-(methyl)-1-methyl-1H-imidazol-3-ium methylsulfate, 3-(2-hydroxyethyl)-1-methyl-2-((Z)-[(2E)-2-(3-methyl-1,3-benzothiazol-2(3H)-ylidene)hydrazono]methyl)-1H-imidazol-3-ium bromide, 1-(2-hydroxy-ethyl)-4-((Z)-[(2E)-2-(3-methyl-1,3-benzothiazol-2(3H)-ylidene)hydrazono]methyl)pyridinium bromide, 4-((E)-([bis[4-(dimethylamino)phenyl]methylene)hydrazono]methyl)-1-(2-hydroxyethyl)pyridinium bromide, 4-((E)-([bis[4-(dimethylamino)phenyl]methylene)hydrazono]methyl)-1-(2-hydroxyethyl)quinolinium bromide, 4-((E)-([bis[4-(dimethylamino)phenyl]methylene)hydrazono]methyl)-1-methylpyridinium methylsulfate, 4-((E)-([bis[4-(diethylamino)phenyl]methylene)hydrazono]methyl)-1-methylpyridinium methylsulfate, 4-((E)-(9H)-fluoren-9-ylidenehydrazono]methyl)-1-methylpyridinium methylsulfate, 3-((E)-([bis[4-(dimethylamino)phenyl]methylene)hydrazono]methyl)-1-methylpyridinium methylsulfate, 4-((E)-[(2Z)-2-(3,4-dimethyl-1,3-thiazol-2(3H)-ylidene)hydrazono]methyl)-1-methylpyridinium methylsulfate and 4-((E)-([bis[4-(dimethylamino)phenyl]methylidene)hydrazono]methyl)-1-methylquinolinium methylsulfate.

4. (currently amended) ~~Agent~~ An agent for non-oxidative dyeing of keratin fibers, ~~characterized in that it wherein the agent~~ contains a cationic heteroarylazine dye as defined in claim 4 3.

5. (currently amended) ~~Agent~~ An agent for non-oxidative dyeing of keratin fibers, as defined in claim 4, characterized in that it comprising:  
(a) a cationic heteroarylazine dye of general formulas (I) and (II)



(I)



(II)

wherein

R1 stands for a group of formula (III), (IV), (V) or (VI):



(III)



(IV)



(V)



(VI)

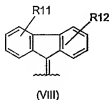
E stands for an oxygen atom or a sulfur atom:

R2, R4 and R5 can be equal or different and stand for hydrogen, a tertiary butyl group, an isopropyl group, a C<sub>1</sub>-C<sub>6</sub>-alkyl group, a C<sub>1</sub>-C<sub>6</sub>-hydroxyalkyl group or a group of general formula (VII):



(VII)

R3 stands for a group of formula (VIII), (IX) or (X)



R6 stands for hydrogen, a straight-chain or branched C<sub>1</sub>-C<sub>6</sub>-alkyl group or a straight-chain or branched C<sub>2</sub>-C<sub>4</sub>-hydroxyalkyl group;

R7 stands for a branched or linear C<sub>1</sub>-C<sub>6</sub>-alkyl group, a C<sub>2</sub>-C<sub>4</sub>-hydroxyalkyl group or a C<sub>4</sub>-C<sub>6</sub>-polyhydroxyalkyl group;

R8 and R9 can be equal or different and stand for hydrogen, a C<sub>1</sub>-C<sub>6</sub>-alkylamino group, a C<sub>1</sub>-C<sub>6</sub>-N,N-dialkylamino group, a C<sub>1</sub>-C<sub>6</sub>-N,N-dihydroxyalkylamino group, a C<sub>1</sub>-C<sub>6</sub>-N-hydroxyalkyl-N-alkylamino group, a C<sub>1</sub>-C<sub>6</sub>-alkylcyano group, a methoxymethyl group, a tertiary butyl group, an isopropyl group, a C<sub>1</sub>-C<sub>6</sub>-alkyl group, a C<sub>1</sub>-C<sub>6</sub>-alkyloxy group or a C<sub>1</sub>-C<sub>6</sub>-hydroxyalkyl group;

R10 stands for hydrogen, a straight-chain or branched C<sub>1</sub>-C<sub>6</sub>-alkyl group or a straight-chain or branched C<sub>2</sub>-C<sub>4</sub>-hydroxyalkyl group;

R11 and R12 can be equal or different and stand for hydrogen, a C<sub>1</sub>-C<sub>6</sub>-alkylamino group, a C<sub>1</sub>-C<sub>6</sub>-N,N-dialkylamino group, a C<sub>1</sub>-C<sub>6</sub>-N,N-dihydroxyalkylamino group, a C<sub>1</sub>-C<sub>6</sub>-N-hydroxyalkyl-N-alkylamino group, a C<sub>1</sub>-C<sub>6</sub>-alkylcyano group, a methoxymethyl group, a tertiary butyl group, an isopropyl group, a C<sub>1</sub>-C<sub>6</sub>-alkyl group, a C<sub>1</sub>-C<sub>6</sub>-alkyloxy group or a C<sub>1</sub>-C<sub>6</sub>-hydroxyalkyl group; and

X<sup>-</sup> stands for an anion

and

contains (b) at least one natural polymer, synthetic polymer or modified polymer of natural origin commonly used in ~~cosmetic~~ cosmetic agents and ~~that it~~ wherein the agent is in the form of a tinting setting agent or color setting agent.

6. (currently amended) Agent An agent for the simultaneous brightening and dyeing of keratin fibers, ~~characterized in that it~~ wherein the agent contains (a) an oxidant and (b) at least one cationic heteroarylazine dye as ~~defined in claim 1 of general formulas (I) and (II)~~



wherein

R1 stands for a group of formula (III), (IV), (V) or (VI);

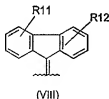


E stands for an oxygen atom or a sulfur atom;

R2, R4 and R5 can be equal or different and stand for hydrogen, a tertiary butyl group, an isopropyl group, a C<sub>1</sub>-C<sub>6</sub> alkyl group, a C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl group or a group of general formula (VII);



**R3** stands for a group of formula (VIII), (IX) or (X)



**R6** stands for hydrogen, a straight-chain or branched C<sub>1</sub>-C<sub>6</sub>-alkyl group or a straight-chain or branched C<sub>2</sub>-C<sub>4</sub>-hydroxyalkyl group;

**R7** stands for a branched or linear C<sub>1</sub>-C<sub>6</sub>-alkyl group, a C<sub>2</sub>-C<sub>6</sub>-hydroxyalkyl group or a C<sub>4</sub>-C<sub>6</sub>-polyhydroxyalkyl group;

**R8** and **R9** can be equal or different and stand for hydrogen, a C<sub>1</sub>-C<sub>6</sub>-alkylamino group, a C<sub>1</sub>-C<sub>6</sub>-N,N-dialkylamino group, a C<sub>1</sub>-C<sub>6</sub>-N,N-dihydroxyalkylamino group, a C<sub>1</sub>-C<sub>6</sub>-N-hydroxyalkyl-N-alkylamino group, a C<sub>1</sub>-C<sub>6</sub>-alkylcyano group, a methoxymethyl group, a tertiary butyl group, an isopropyl group, a C<sub>1</sub>-C<sub>6</sub>-alkyl group, a C<sub>1</sub>-C<sub>6</sub>-alkyloxy group or a C<sub>1</sub>-C<sub>6</sub>-hydroxyalkyl group;

**R10** stands for hydrogen, a straight-chain or branched C<sub>1</sub>-C<sub>6</sub>-alkyl group or a straight-chain or branched C<sub>2</sub>-C<sub>4</sub>-hydroxyalkyl group;

**R11** and **R12** can be equal or different and stand for hydrogen, a C<sub>1</sub>-C<sub>6</sub>-alkylamino group, a C<sub>1</sub>-C<sub>6</sub>-N,N-dialkylamino group, a C<sub>1</sub>-C<sub>6</sub>-N,N-dihydroxyalkylamino group, a C<sub>1</sub>-C<sub>6</sub>-N-hydroxyalkyl-N-alkylamino group, a C<sub>1</sub>-C<sub>6</sub>-alkylcyano group, a methoxymethyl group, a tertiary butyl group, an isopropyl group, a C<sub>1</sub>-C<sub>6</sub>-alkyl group, a C<sub>1</sub>-C<sub>6</sub>-alkyloxy group or a C<sub>1</sub>-C<sub>6</sub>-hydroxyalkyl group; and

**X<sup>-</sup>** stands for an anion.

7. (currently amended) **Agent An agent** as defined in claim 6, characterized in that wherein the oxidant is selected from among the group consisting of hydrogen peroxide, persulfates, perborates and mixtures of these compounds.

8. (currently amended) **Agent An agent** for the oxidative dyeing of keratin fibers based on oxidation dye precursors, characterized in that it wherein the agent contains at least one cationic heteroarylazine dye as defined in claim 4 of general formulas (I) and (II)



(I)



(II)

wherein

**R1** stands for a group of formula (III), (IV), (V) or (VI);



(III)



(IV)



(V)



(VI)

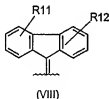
**E** stands for an oxygen atom or a sulfur atom;

**R2**, **R4** and **R5** can be equal or different and stand for hydrogen, a tertiary butyl group, an isopropyl group, a  $\text{C}_1\text{-C}_6$ -alkyl group, a  $\text{C}_1\text{-C}_6$ -hydroxyalkyl group or a group of general formula (VII);



(VII)

**R3** stands for a group of formula (VIII), (IX) or (X)



**R6** stands for hydrogen, a straight-chain or branched C<sub>1</sub>-C<sub>8</sub>-alkyl group or a straight-chain or branched C<sub>2</sub>-C<sub>4</sub>-hydroxyalkyl group;

**R7** stands for a branched or linear C<sub>1</sub>-C<sub>8</sub>-alkyl group, a C<sub>2</sub>-C<sub>4</sub>-hydroxyalkyl group or a C<sub>2</sub>-C<sub>8</sub>-polyhydroxyalkyl group;

**R8** and **R9** can be equal or different and stand for hydrogen, a C<sub>1</sub>-C<sub>8</sub>-alkylamino group, a C<sub>1</sub>-C<sub>8</sub>-N,N-dialkylamino group, a C<sub>1</sub>-C<sub>8</sub>-N,N-dihydroxyalkylamino group, a C<sub>1</sub>-C<sub>8</sub>-N-hydroxyalkyl-N-alkylamino group, a C<sub>1</sub>-C<sub>8</sub>-alkylcyano group, a methoxymethyl group, a tertiary butyl group, an isopropyl group, a C<sub>1</sub>-C<sub>8</sub>-alkyl group, a C<sub>1</sub>-C<sub>8</sub>-alkyloxy group or a C<sub>1</sub>-C<sub>8</sub>-hydroxyalkyl group;

**R10** stands for hydrogen, a straight-chain or branched C<sub>1</sub>-C<sub>8</sub>-alkyl group or a straight-chain or branched C<sub>2</sub>-C<sub>4</sub>-hydroxyalkyl group;

**R11** and **R12** can be equal or different and stand for hydrogen, a C<sub>1</sub>-C<sub>8</sub>-alkylamino group, a C<sub>1</sub>-C<sub>8</sub>-N,N-dialkylamino group, a C<sub>1</sub>-C<sub>8</sub>-N,N-dihydroxyalkylamino group, a C<sub>1</sub>-C<sub>8</sub>-N-hydroxyalkyl-N-alkylamino group, a C<sub>1</sub>-C<sub>8</sub>-alkylcyano group, a methoxymethyl group, a tertiary butyl group, an isopropyl group, a C<sub>1</sub>-C<sub>8</sub>-alkyl group, a C<sub>1</sub>-C<sub>8</sub>-alkyloxy group or a C<sub>1</sub>-C<sub>8</sub>-hydroxyalkyl group; and

**X<sup>-</sup>** stands for an anion.

9. (currently amended) Agent An agent as defined in claim 8, characterized in that it wherein the agent contains from 0.01 to 12 weight percent of at least one oxidation dye precursor.

10. (currently amended) Agent An agent as defined in one of claims 3-9, claim 4, characterized in that it wherein the agent contains the cationic heteroarylazine dye in a total amount from 0.01 to 10 weight percent.

11. (currently amended) **Agent** ~~An agent~~ as defined in one of claims 3-9 and 12, claim 4, characterized in that it wherein the agent is a hair colorant.

12. (new) An agent as defined in one of claims 5, 6, and 8, wherein the cationic heteroarylazine dye of general formulas (I) and (II) is selected from the group consisting of: 1-(2-hydroxyethyl)-3-((Z)-[(2E)-2-(3-methyl-1,3-benzothiazol-2(3H)-ylidene)hydrazono]methyl)pyridinium bromide, 4-((E)-[(2Z))-2-(3,4-dimethyl-1,3-thiazol-2(3H)-ylidene)hydrazono]methyl)-1-(2-hydroxyethyl)pyridinium bromide, 2-((E)-[(2Z)-2-(3,4-dimethyl-1,3-thiazol-2(3H)-ylidene)hydrazono]methyl-3-(methyl)-1-methyl-1H-imidazol-3-ium methylsulfate, 3-(2-hydroxyethyl)-1-methyl-2-((Z)-[(2E)-2-(3-methyl-1,3-benzothiazol-2(3H)-ylidene)hydrazono]methyl)-1H-imidazol-3-ium bromide, 1-(2-hydroxy-ethyl)-4-((Z)-[(2E)-2-(3-methyl-1,3-benzothiazol-2(3H)-ylidene)hydrazono]methyl)pyridinium bromide, 4-((E)-{(bis[4-(dimethylamino)phenyl]methylene)hydrazono)methyl]-1-(2-hydroxyethyl)pyridinium bromide, 4-((E)-{(bis[4-(dimethylamino)phenyl]methylene)hydrazono)methyl]-1-(2-hydroxyethyl)quinolinium bromide, 4-((E)-{(bis[4-(dimethylamino)phenyl]methylene)hydrazono)methyl]-1-methylpyridinium methylsulfate, 4-((E)-{(bis[4-(diethylamino)phenyl]methylene)hydrazono)methyl]-1-methylpyridinium methylsulfate, 4-((E)-{(bis[4-(dimethylamino)phenyl]methylene)hydrazono)methyl]-1-methylpyridinium methylsulfate, 3-((E)-{(bis[4-(dimethylamino)phenyl]methylene)hydrazono)methyl]-1-methylpyridinium methylsulfate, 4-((E)-[(2Z)-2-(3,4-dimethyl-1,3-thiazol-2(3H)-ylidene)hydrazono]methyl)-1-methylpyridinium methylsulfate and 4-((E)-{(bis[4-(dimethylamino)phenyl]methylidene)hydrazono)methyl]-1-methylquinolinium methylsulfate.